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ANALYSIS  
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

MENSURAL DATA ON SOVIET

TRIAD FACILITIES

Declass Review  
by NIMA/DOD



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CIA/PIR 61054

DATE October 1965

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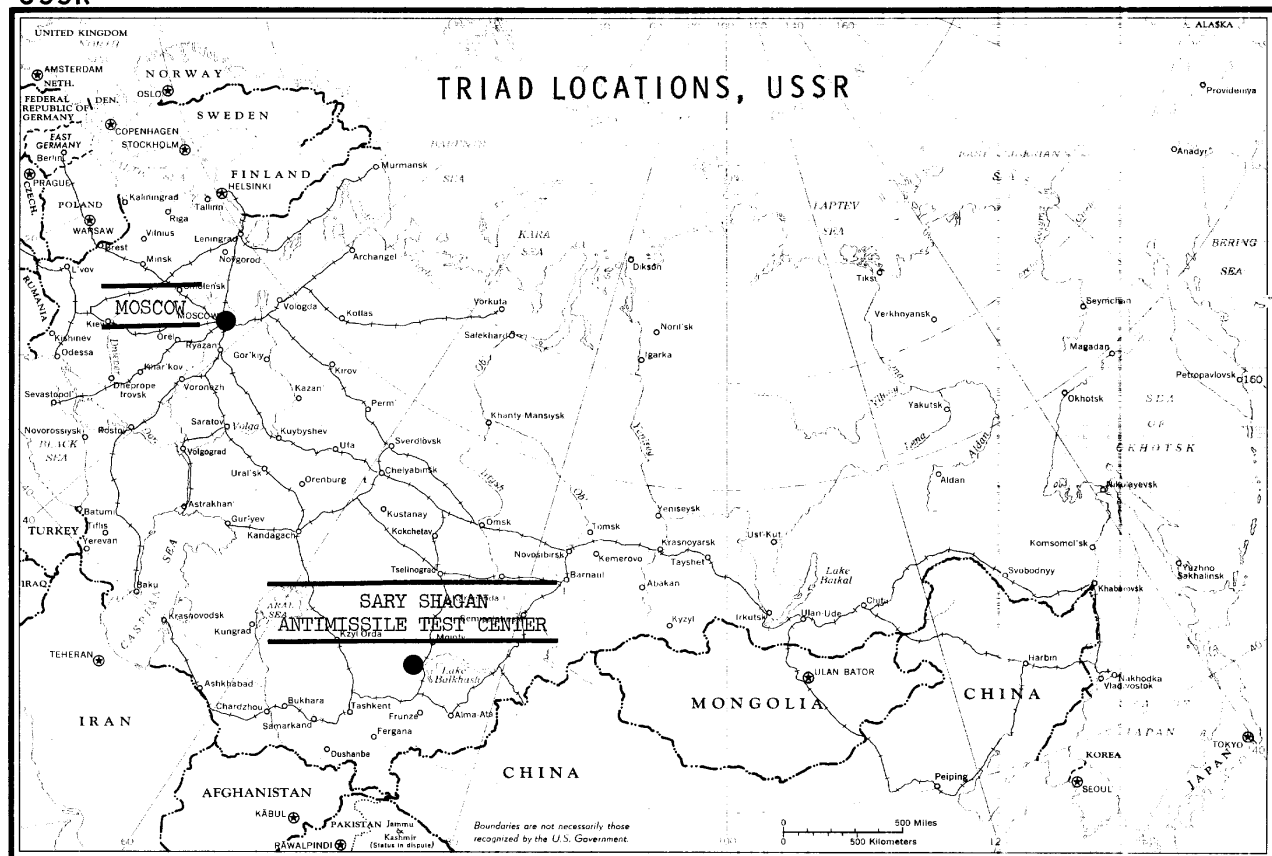


FIGURE 1

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## MENSURAL DATA ON SOVIET TRIAD FACILITIES

This report presents basic mensural data for the 12 currently known triad facilities in the Soviet Union. Eight of these triads, in various stages of construction, are located around Moscow, while the remaining four are located at the Sary Shagan Antimissile Test Center (Figure 1).

The purpose of this report is to present azimuths and linear dimensions for the 12 triad facilities. This information is presented in the graphic portion of the report (Figures 2-15), and is largely self-explanatory. Several additional comments are included here for purposes of clarification: (a) Where the triad facility was sufficiently advanced, the distances and azimuths were computed between the centers of the structures on the roofs of the buildings; (b) Where the triad facility was not sufficiently advanced, the dimensions and azimuths were computed from the approximate centers of the clearings. These clearings are far more irregular than they are shown in the graphics, and the dimensions shown are approximate; (c) At Instrumentation Site 2, Sary Shagan Antimissile Test Center (Figure 12), no azimuth is presented for the so-called "triad-related facility," nor is it shown in the graphic. This facility consists of a 145 by 140 foot building, on which is positioned a 120 foot dome. This building is located approximately 1,000 feet northeast of Triad Building A. The sides of this building are parallel to the sides of the buildings in the triad proper.

All measurements in this report have been made by the NPIC Technical Intelligence Division. Since the degree of accuracy varies throughout, the appropriate accuracy statement has been included with each graphic.

## REFERENCES

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MAPS and CHARTS

- ACIC. US Operational Navigation Chart, Sheet D-3, 1st edition, April 1961, Scale 1:1,000,000 (UNCLASSIFIED)
- ACIC. US Operational Navigation Chart, Sheet E-4, 2nd classified edition, December 1960, Scale 1:1,000,000 (CONFIDENTIAL)
- ACIC. US Operational Navigation Chart, Sheet F-6, 1st classified edition, August 1961, Scale 1:1,000,000 (CONFIDENTIAL)

REQUIREMENT

C-RR5-82,818

CIA/IAD PROJECT

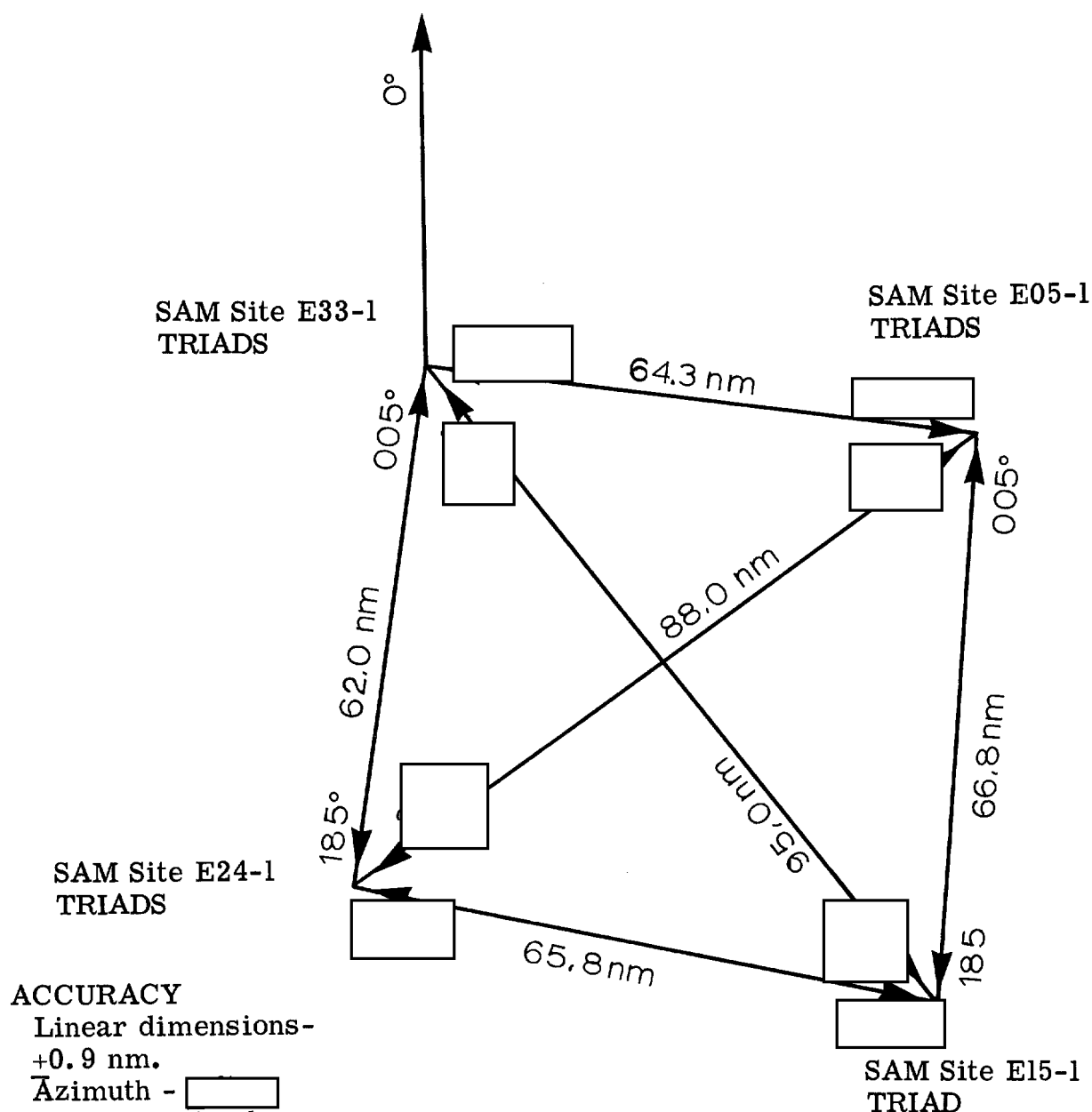
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# DISTANCES AND ORIENTATIONS BETWEEN TRIAD SITES, MOSCOW



## ACCURACY

Linear dimensions -  
+0.9 nm.

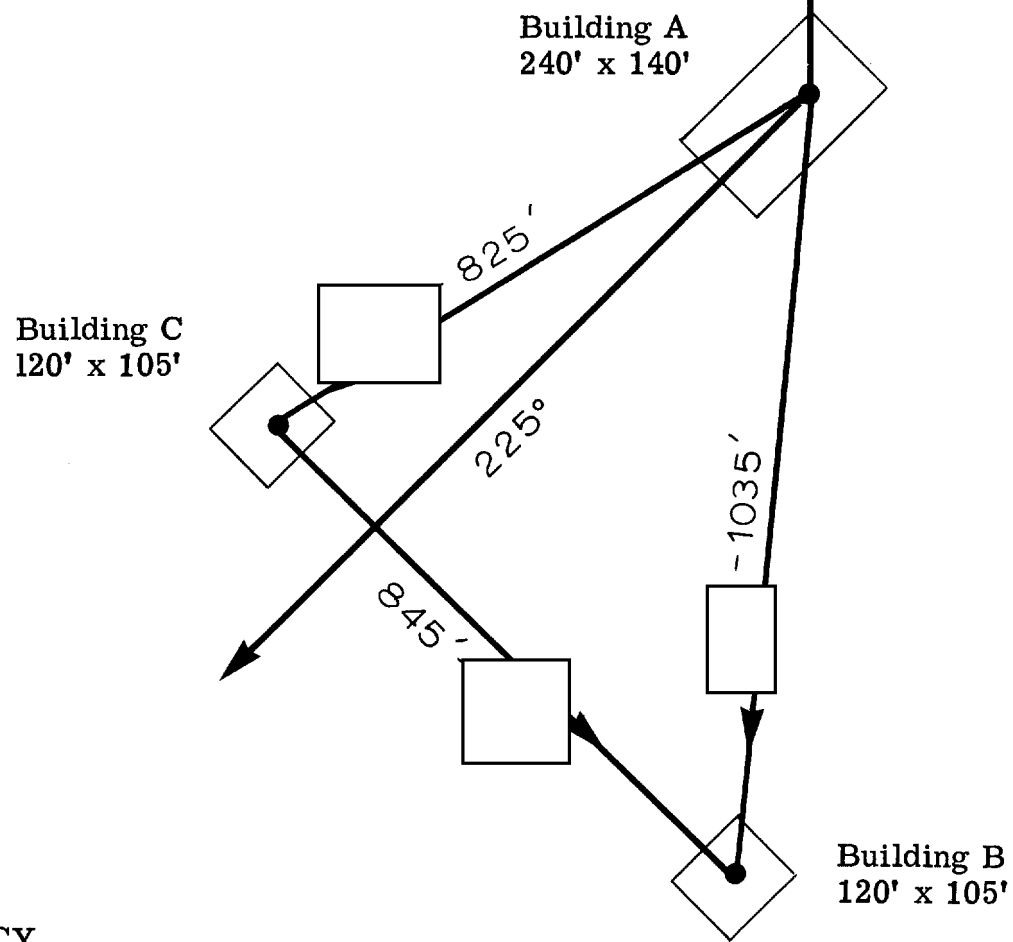
Azimuth -

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 2



MOSCOW E05-1  
(ORIGINAL TRIAD)



ACCURACY

Linear dimensions-  
+10' or 10%, which-  
ever is greater.

Azimuth [redacted]  
Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

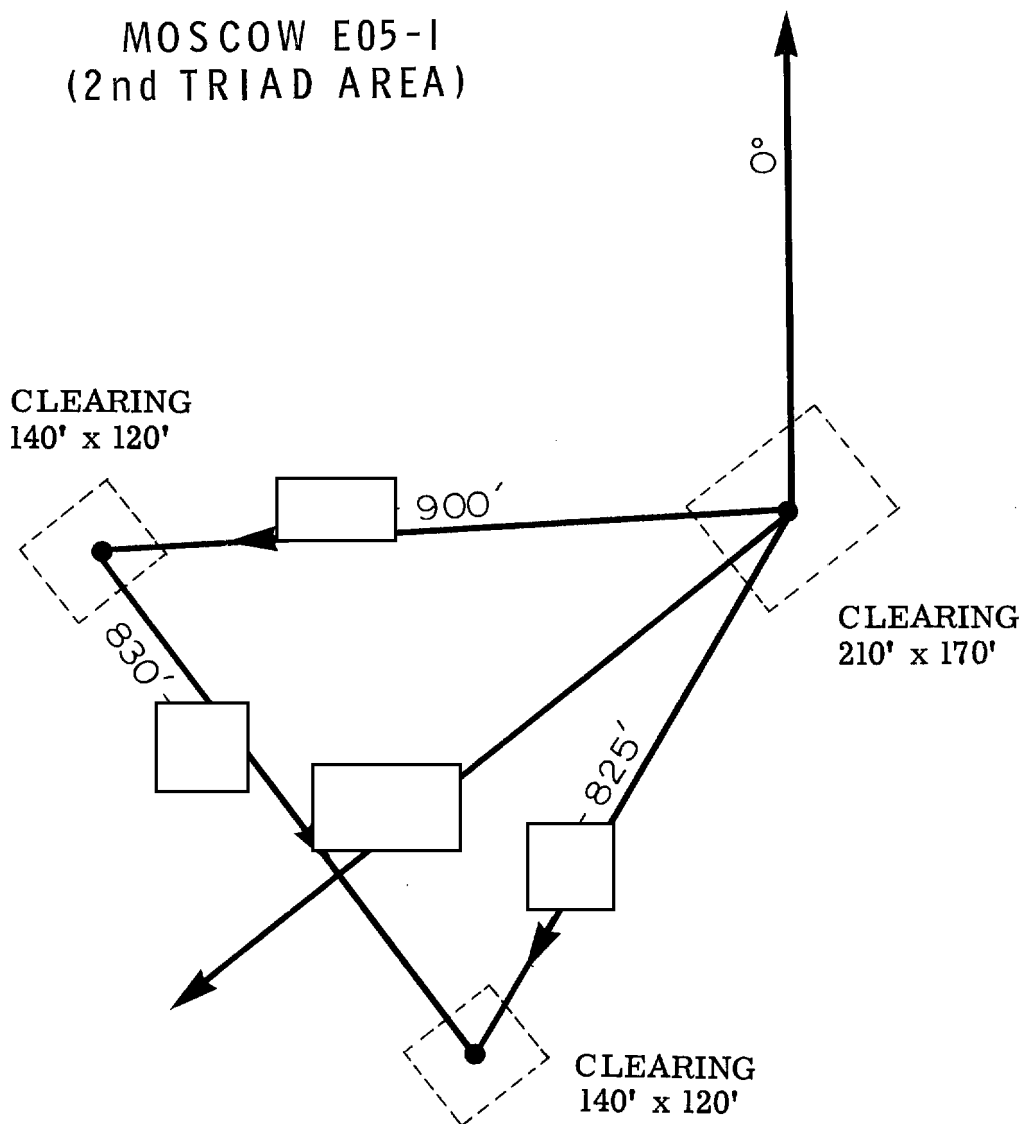
FIGURE 3

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25X1

MOSCOW E05-1  
(2nd TRIAD AREA)



ACCURACY

Linear dimensions-  
+10' or 10%, which-  
ever is greater.

Azimuth

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 4

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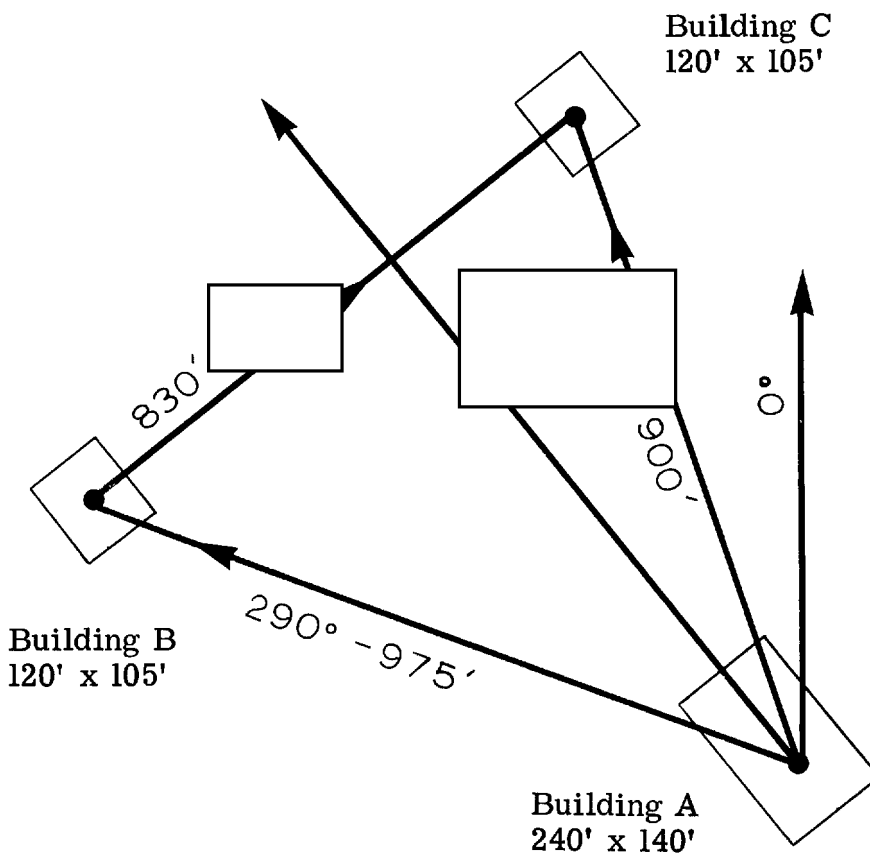
25X1  
25X1

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25X1  
25X1

## MOSCOW E15-1 (TRIAD)



### ACCURACY

Linear Dimensions -  
+10' or 10%, which-  
ever is greater.

Azimuth -

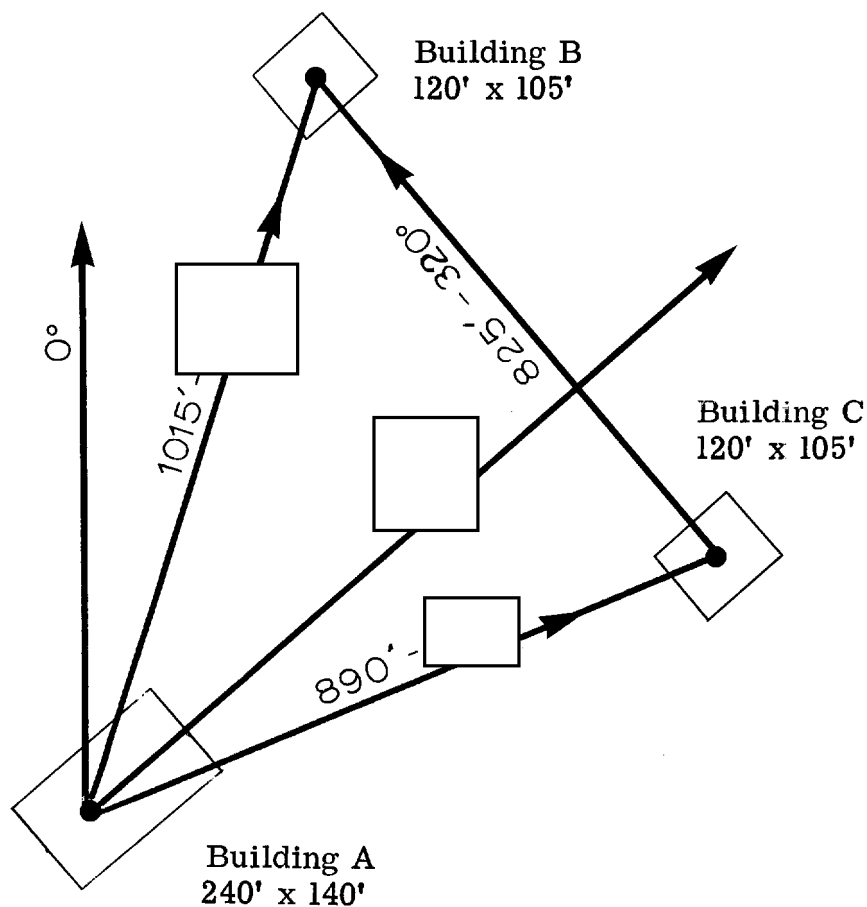
Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 5

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25X1  
25X1

MOSCOW E24-1  
(ORIGINAL TRIAD)



ACCURACY

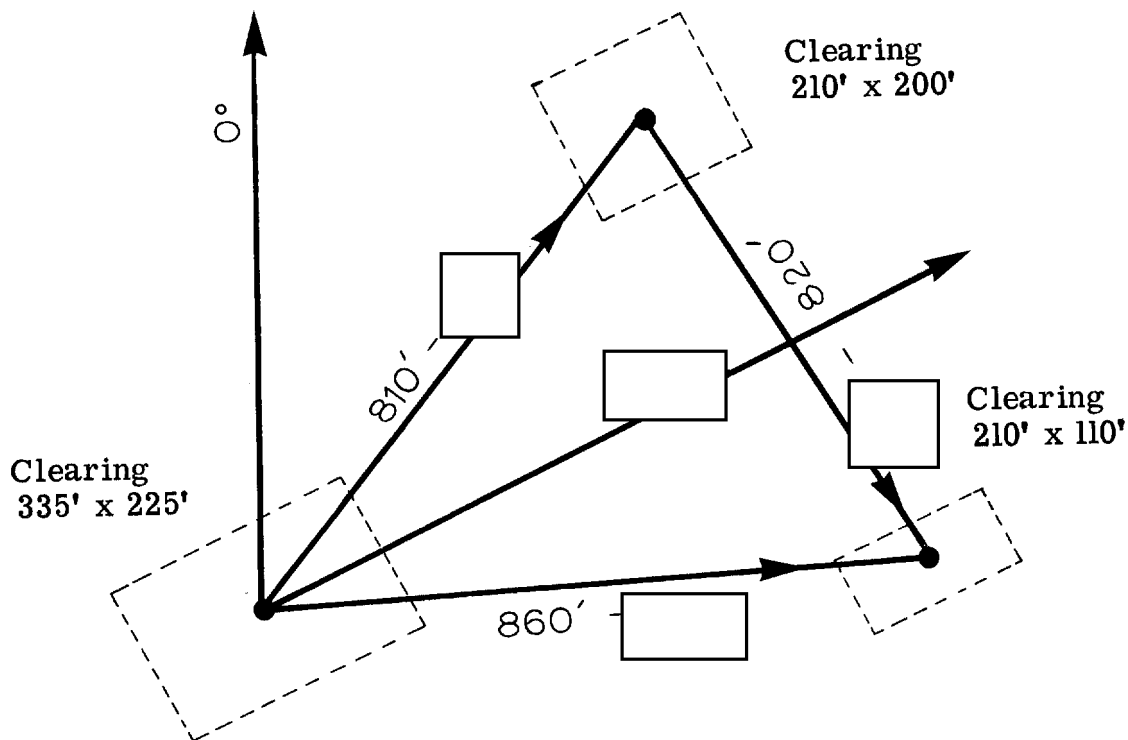
Linear dimensions -  
+10' or 10%, which-  
ever is greater

Azimuth -

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 6

MOSCOW E24-I  
(2nd TRIAD AREA)



ACCURACY

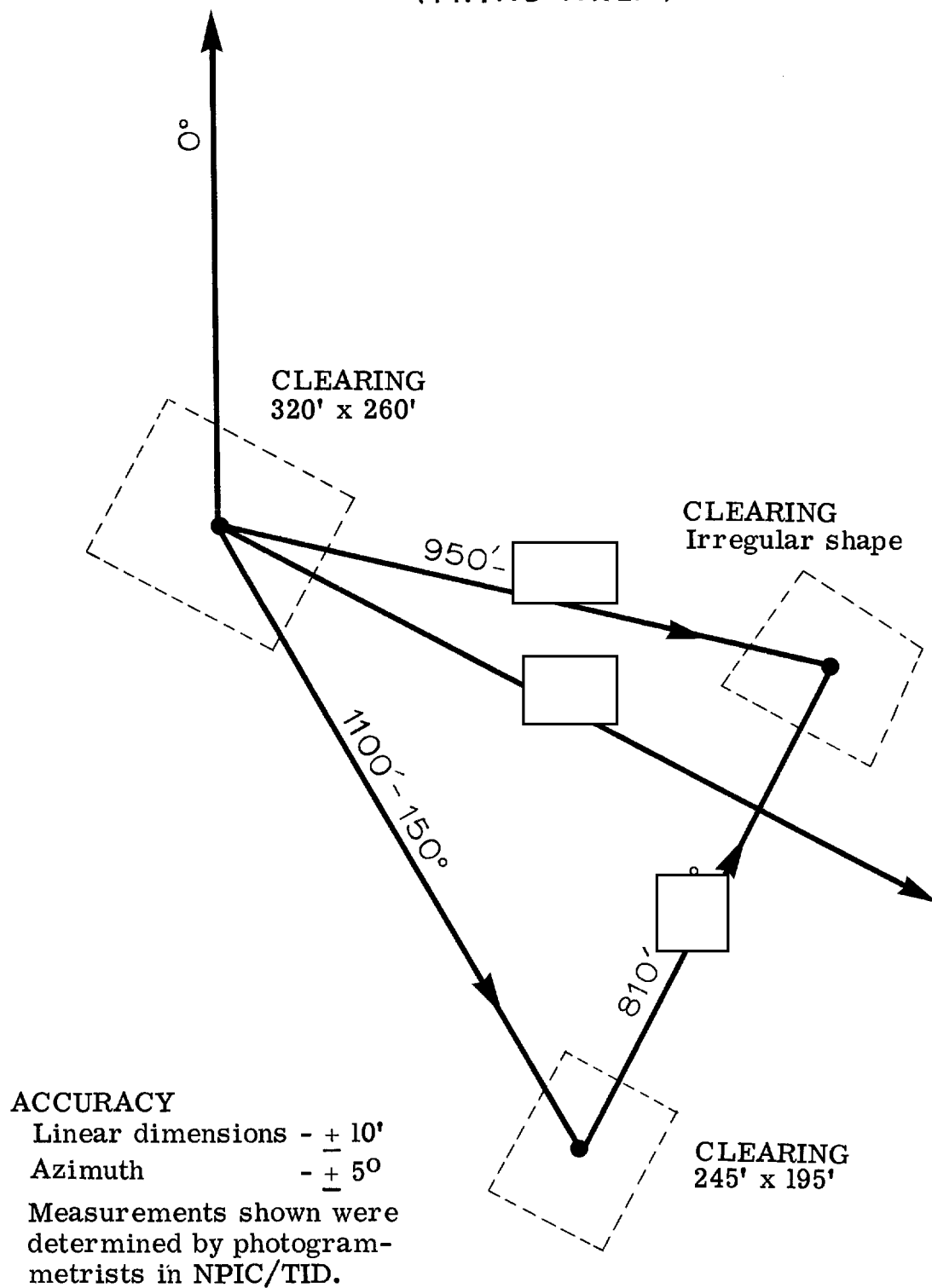
Linear dimensions -  
+10' which-  
ever is greater.

Azimuth -  $\pm 5^{\circ}$

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 7

# MOSCOW E31-1 (TRIAD AREA)



25X1

25X1

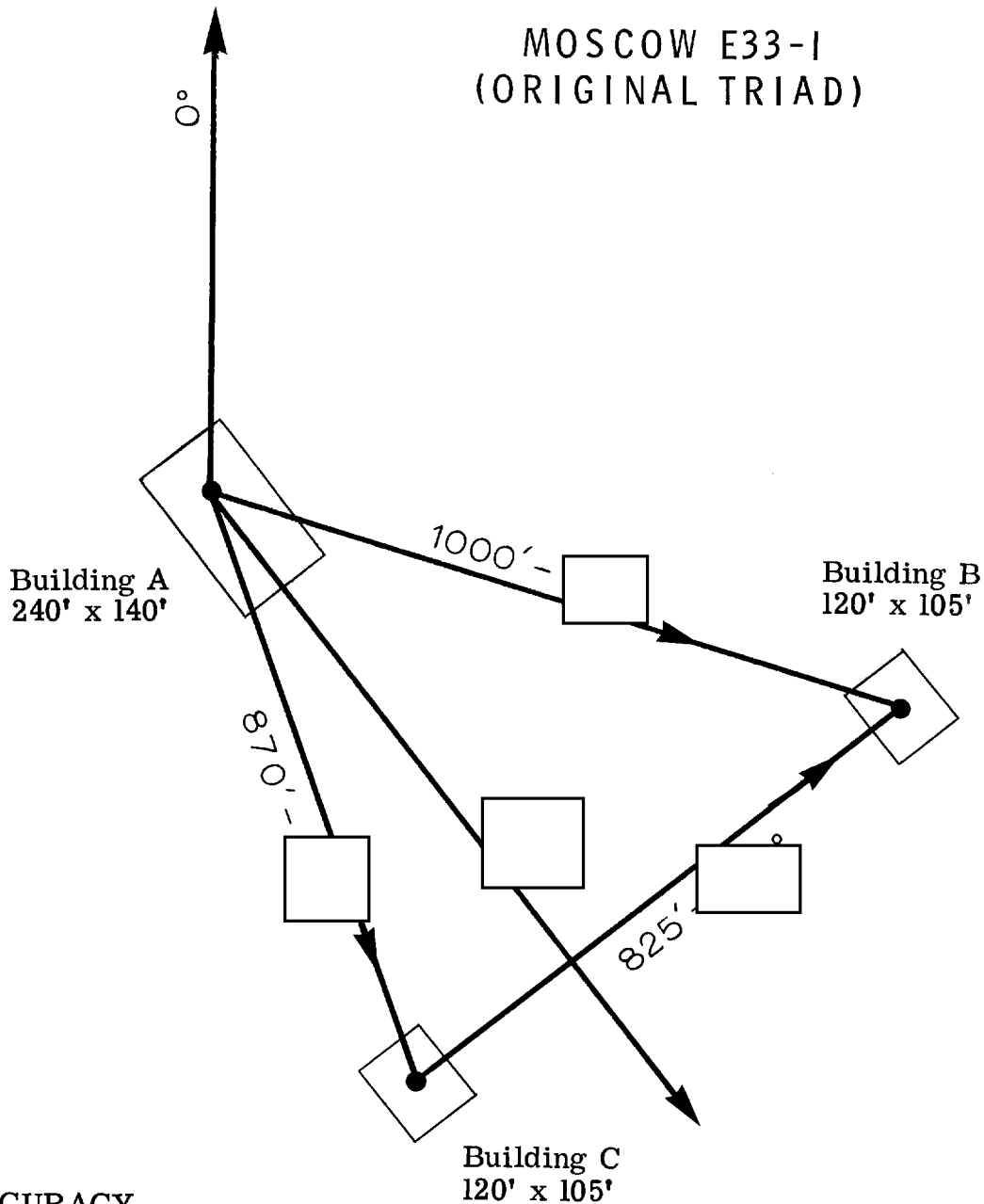
25X1

FIGURE 8

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25X1  
25X1



# ACCURACY

Linear dimensions-  
+10' or 10%, which-  
ever is greater.

Azimuth

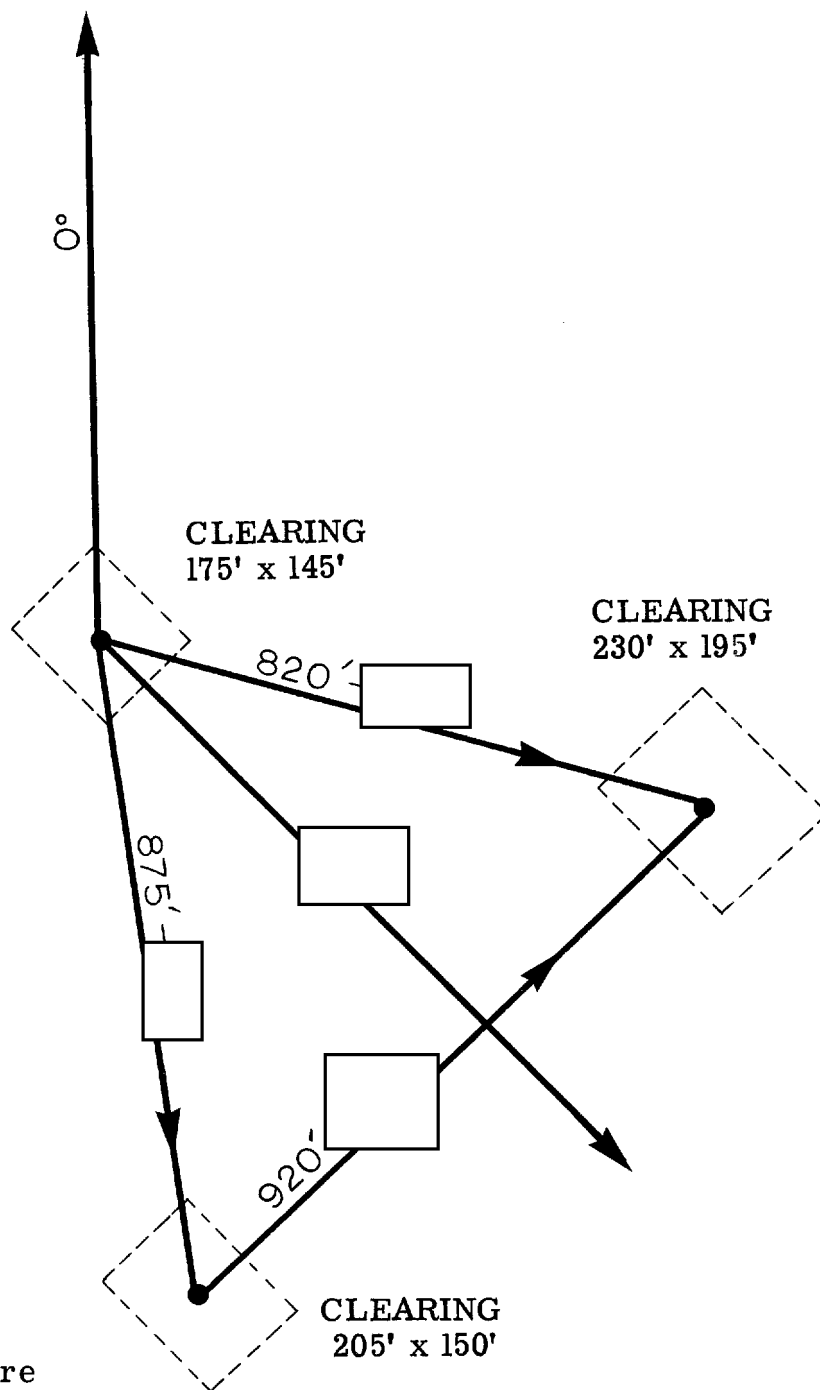
Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 9

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25X1  
25X1

MOSCOW E33-1  
(2nd TRIAD AREA)



25X1

25X1

25X1

ACCURACY

Linear dimensions -  
+10' or 10%, which-  
ever is greater.

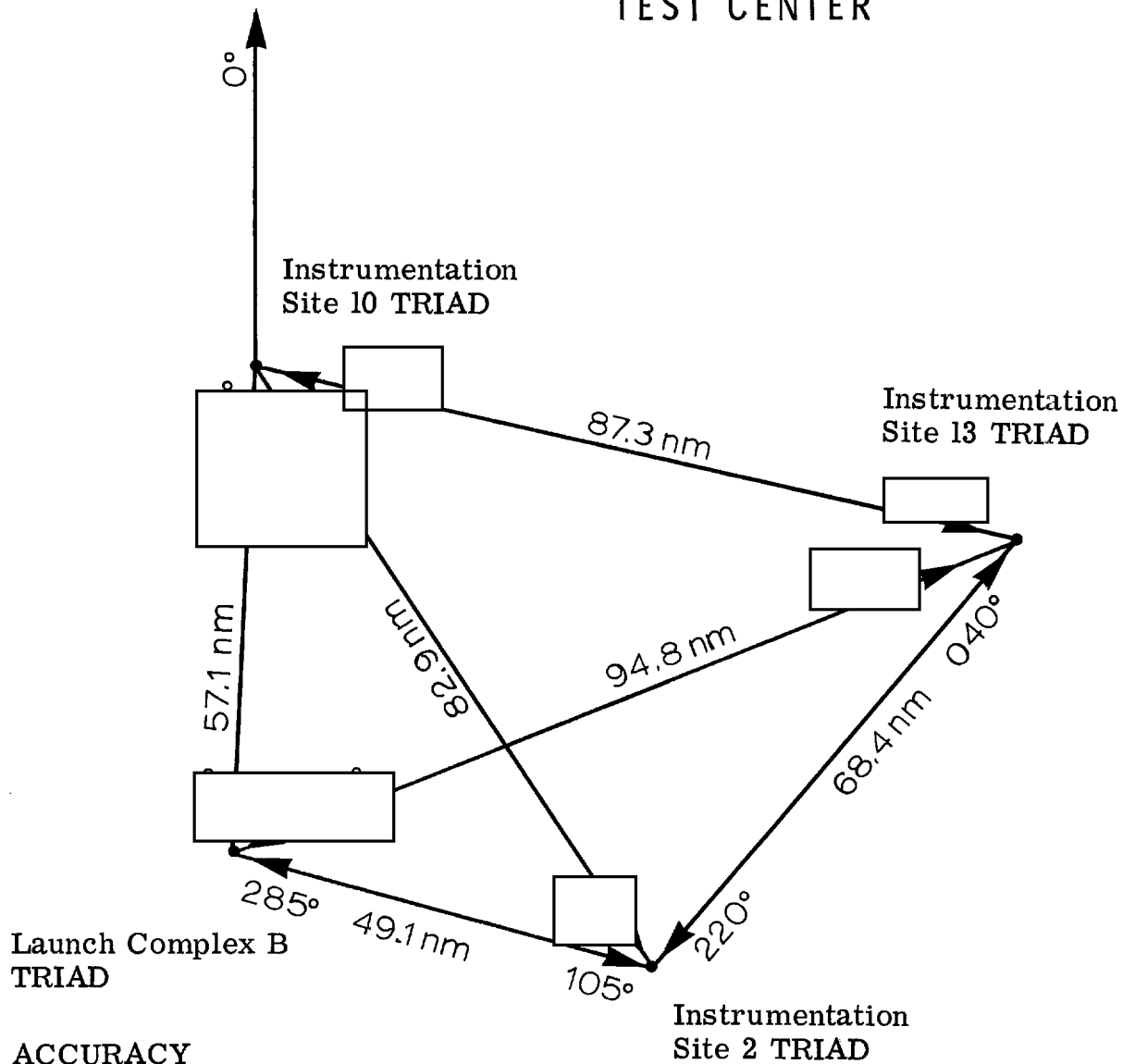
Azimuth -

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 10



# DISTANCES AND ORIENTATIONS BETWEEN TRIAD SITES, SARY SHAGAN ANTIMISSILE TEST CENTER



## ACCURACY

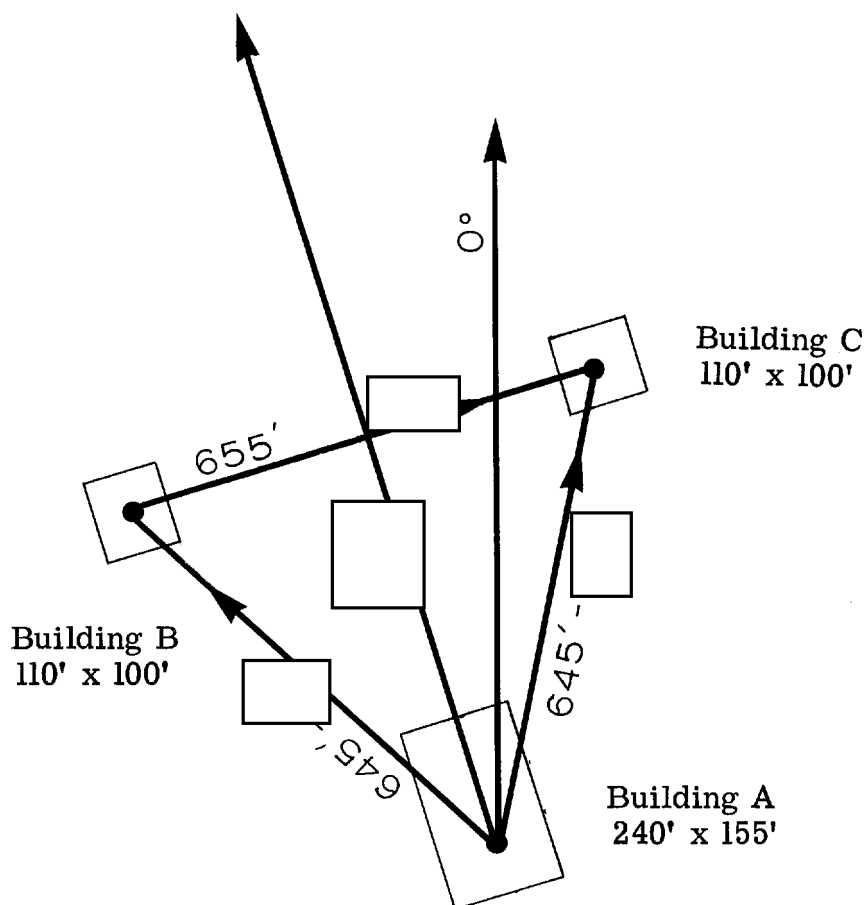
Linear distance-  
+0.8 nm.

Azimuth

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 11

# SARY SHAGAN INSTRUMENTATION SITE 2 (TRIAD)



## ACCURACY

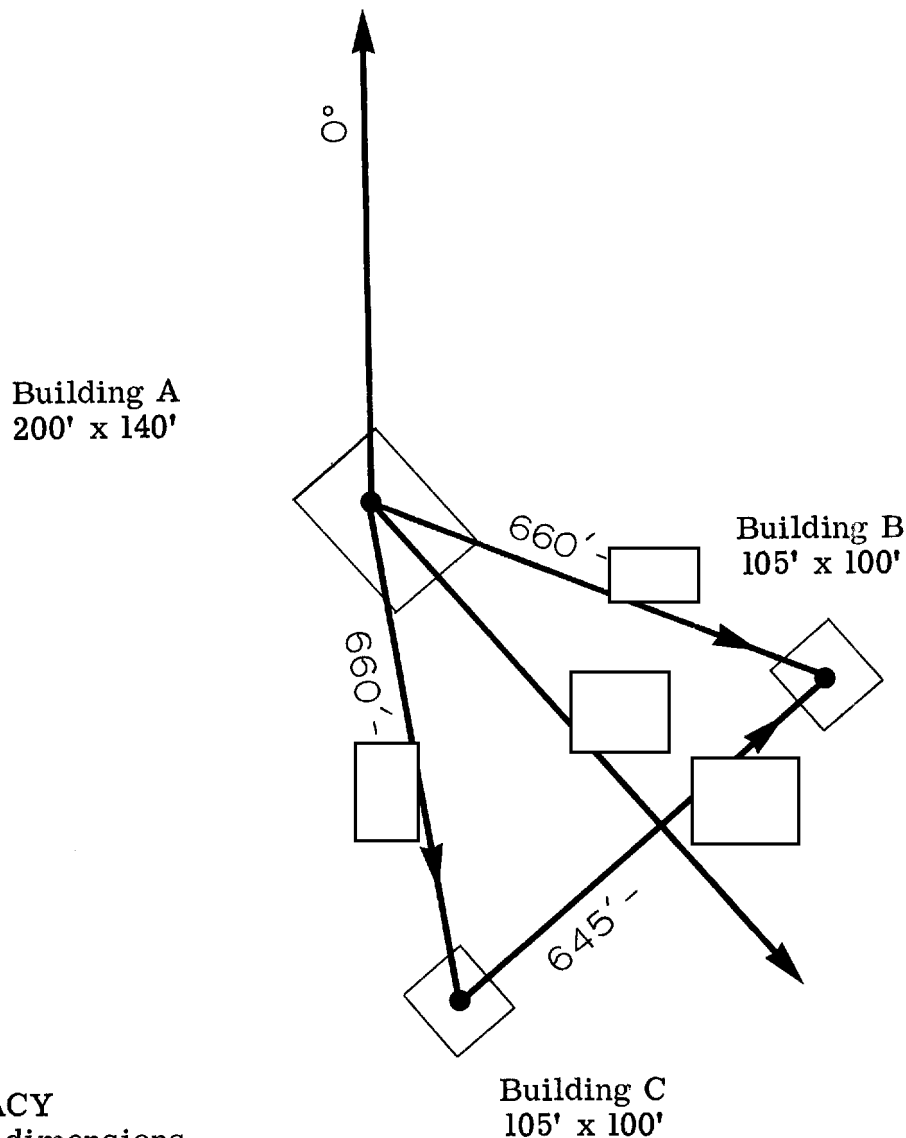
Linear dimensions -  
+10' or 10%, which-  
ever is greater.

Azimuth -

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 12

SARY SHAGAN  
INSTRUMENTATION SITE 10  
(TRIAD)



25X1

25X1

25X1

ACCURACY

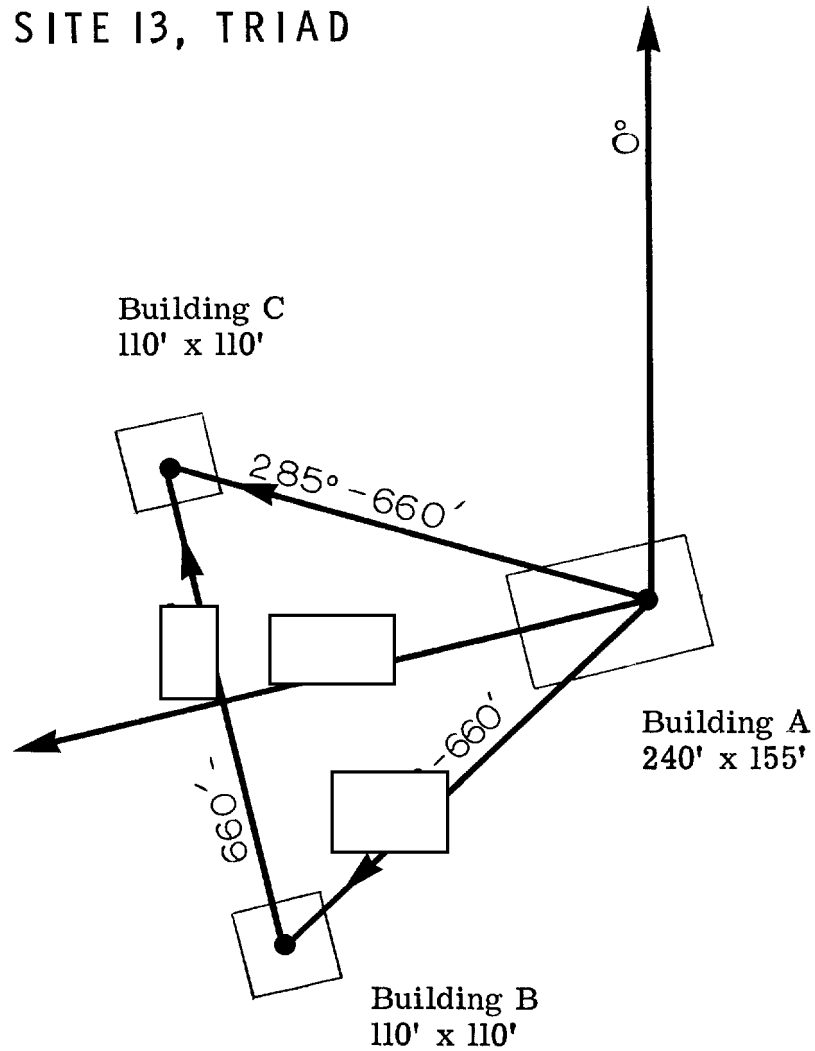
Linear dimensions -  
+5' or [ ] which-  
ever is greater.

Azimuth - [ ]

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 13

# SARY SHAGAN SITE 13, TRIAD



## ACCURACY

Linear dimensions-  
+5' or [ ] which-  
ever is greater.

Azimuth - [ ]

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

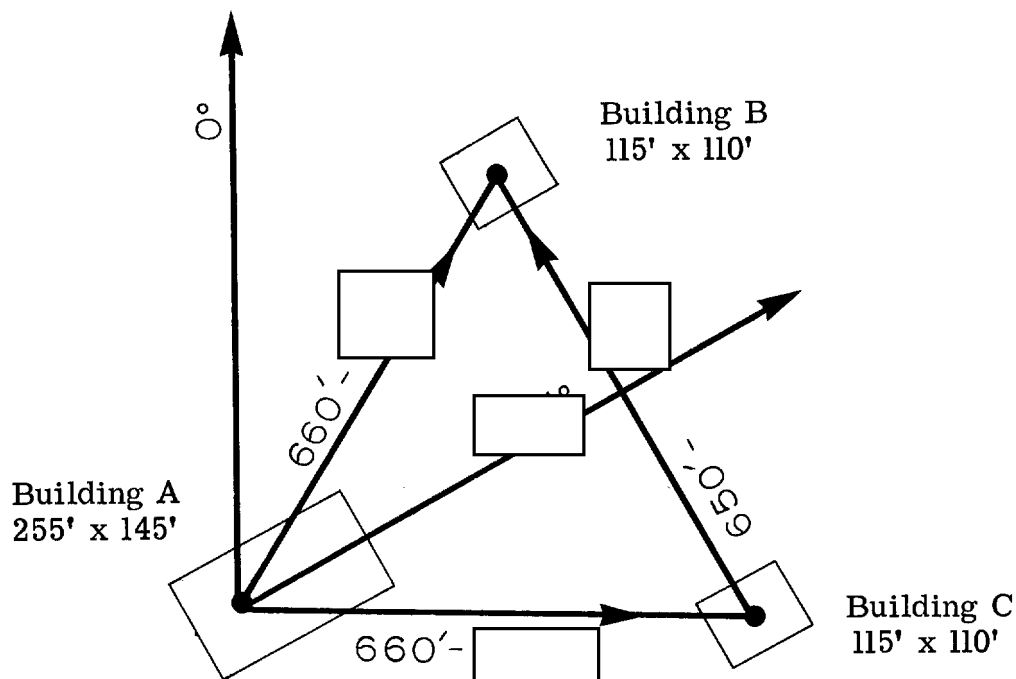
FIGURE 14

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25X1

# SARY SHAGAN LAUNCH COMPLEX B (TRIAD)



## ACCURACY

Linear dimensions-  
+10' or 10%, which-  
ever is greater.

Azimuth [redacted]

Measurements shown were  
determined by photogram-  
metrists in NPIC/TID.

FIGURE 15

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